

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): **Fernandez, D.**

Docket No.: **FERN-P013**

Serial No.: (Not yet assigned)

Group Art Unit: (Not yet assigned)

Filed: 8/22/03

Examiner: (Not yet assigned)

Title: **Integrated Biosensor and Simulation System for Diagnosis and Therapy**

INFORMATION DISCLOSURE STATEMENT

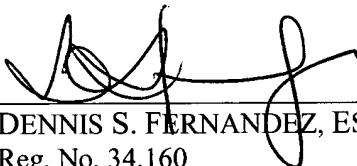
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In keeping with the duty of candor and good faith owed to the Patent and Trademark Office, Applicants wish to bring the enclosed printed publications and U.S. patent references to the attention of the Examiner.

Applicant respectfully submits that Applicants' claimed invention is patentable over such references. Forms PTO/SB/08A and PTO/SB/08B listing these references are attached. It is understood the Office may find additionally relevant material in these or other references

Respectfully submitted,



DENNIS S. FERNANDEZ, ESQ.
Reg. No. 34,160

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8/22/03

Date



22877


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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and beliefs are believed to be true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: DENNIS S. FERNANDEZ	
Inventor's signature 	Date 8/22/03
Residence: 1175 OSBORN AVENUE, ATHERTON, CA 94027	
Citizenship: UNITED STATES OF AMERICA	
Postal Address: SAME AS RESIDENCE	

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STATEMENT BY APPLICANT**

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Sheet

of

9

Complete if Known

Application Number	NOT YET ASSIGNED
Filing Date	8/22/03
First Named Inventor	FERNANDEZ, D.
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Examiner Name	NOT YET ASSIGNED
Attorney Docket Number	FERN-PO13

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	US- 6,402,689 B1	6/11/2002	Scarantino, et al.	
	2.	US- 6,122,536	9/19/2000	Sun, et al.	
	3.	US- 6,558,957 B1	5/6/2003	Roinestad, et al.	
	4.	US- 6,285,897 B1	9/4/2001	Kilcoyne, et al	
	5.	US- 6,490,030 B1	12/3/2002	Gill, et al	
	6.	US- 6,358,200 B1	3/19/2002	Arent	
	7.	US- 6,546,269 B1	4/8/2003	Kurnik	
	8.	US- 6,315,720 B1	11/13/2001	Williams, et al	
	9.	US- 6,542,858 B1	4/1/2003	Grass, et al.	
	10.	US- 6,454,708 B1	9/24/2002	Ferguson, et al .	
	11.	US- 6,561,978 B1	5/13/2003	Conn, et al	
	12.	US- 6,553,244 B2	4/24/2003	Lesko, et al .	
	13.	US- 6,551,838 B2	4/22/2003	Santini, Jr. et al	
	14.	US- 6,546,268 B1	4/8/2003	Ishikawa, et al	
	15.	US- 6,514,689 B2	2/4/2003	Han, et al.	
	16.	US- 6,486,588 B2	11/26/2002	Doren, et al.	
	17.	US- 6,423,001 B1	7/23/2002	Abreu, et al	
	18.	US- 6,475,750 B1	11/05/2002	Han, et al.	
	19.	US- 6,544,193 B2	04/08/2003	Abreu, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
	1.	WO 94 / 00818	01/06/1994			

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Sheet	2	of	9
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U. S. PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS			
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	1.	AFFECTIVE JEWELRY ; AFFECTIVE COMPUTING RESEARCH PROJECT , BY JENNIFER HEALEY & GRANT GOULD .	
	2.	HYBRID BIOSENSORS ; DAVID A. BORKHOLDER , B. DEREK DE BUSSCHERE , DAVID STENGER	
	3.	BIOSENSORS ; CINDY TONNESEN AND GARY WITHROW ; HTTP : // WWW . HITL . WASHINGTON . EDU / SCI W / EVE / I . D . 1 . C . BIOSENSORS . HTML .	
	4.	PORTABLE CELL - BASED BIOSENSORS ; B. DEREK DEBUSSCHERE AND GREGORY . T . A . KOVACS ; ELECTRICAL ENGINEERING DEPARTMENT , CENTER FOR INTEGRATED SYSTEMS , STANFORD UNIVERSITY	
	5.	PLASTIC - BASED DISPOSABLE SMART BIOCHIPS WITH INTEGRATED BIOSENSORS FOR BLOOD ANALYSIS AND CLINICAL DIAGNOSTICS ; CHONG H . AHN & JIN - WOO CHOI , MICRO SYSTEMS AND BIOMEMS LAB . DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING AND COMPUTER SCIENCE , UNIVERSITY OF CINCINNATI	
	6.	PAUL ELIAS ; "BIOTECH INVESTORS TURN TO MOVE EXOTIC MANIPULATION" MAIL & GUARDIAN ONLINE , WEDNESDAY , JULY 09 , 2003	

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Sheet 4 of 9

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	7.	JIM ROGERS, JULIE QUICK, "USDA STRENGTHENS 2003 PERMIT CONDITIONS FOR FIELD TESTING GENETICALLY ENGINEERED PLANTS".	
	8.	HUI DU, MATTHEW D. DISNEY, BENJAMIN L. MILLER, AND TODD D. KRAUSE "HYBRIDIZATION-BASED UNQUENCHING OF DNA HAIRPINS ON AU SURFACES. PROTOTYPICAL "MOLECULAR BEACON" BIOSENSORS."	
	9.	THE OUTCRY OVER "TERMINATOR" GENES IN FOOD; http://www.businessweek.com/print/magazine/content/03_28/b3841091.htm?	
	10.	"MORE DELICIOUS DELICACIES, THANKS TO TECH". http://www.businessweek.com/print/technology/content/jul2003/tc2003078	
	11.	"FOOD SAFETY IN THE FOOD MANUFACTURING INDUSTRY"; PAUL SAVELLO'S DAIRY TECHNOLOGY SPECIALIST USAID-KBS; ARTICLE IN "KOHA - DITORE" - 11 DECEMBER, 2002	
	12.	"FOOD SCIENTISTS TO ASSESS BIOTERRORISM RISK"; REUTERS, JULY 15, 2003	
	13.	HAO WU, WILLIAM N. HAIT & JIN-MING YANG; "SMALL INTERFERING RNA- INDUCED SUPPRESSION OF MDR1 (P-GLYCOPROTEIN) RESTORES SENSITIVITY TO MULTIDRUG-RESISTANT CANCER CELLS; CANCER RESEARCH	

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Sheet

5

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	14.	LABORATORY TESTS THAT DETECT CANCER ; THE CANCER CURE FOUNDATION WWW.CANCURE.ORG.	✓
	15.	CANCER SLEUTHING ; SF CHRONICLE, BUSINESS SECTION ; SUNDAY JULY 6, 2003	✓
	16.	RAJA MISHRA ; ADVANCES BEGIN TO TAME CANCER ; HTTP://WWW.BOSTON.COM/	✓
	17.	NEW TEST MAY IMPROVE CANCER DETECTION ; REUTERS ; JULY 17, 2003 ; http://www.reuters.com/newsArticle.jhtml?type=healthNews &storyID=3112050 &fromEmail=true	
	18.	GENOMIC ADVANCES OF PAST DECADE ARE REAL: ORDONEZ ; By Tony STRATTNER, Bio-IT WORLD. http://www.imakenews.com/health-itworld/e_article000165177.cfm? x=ALVSRy1,AVFBgjn.	
	19.	GENE PROFILING MAY HELP TREAT CANCER ; Procedure could reduce unnecessary use of certain drugs.	
	20.	BIOSENSORS : MICROELECTRONICS MARRIES BIOLOGY ; By JENNIFER QUELLETTE ; SEPTEMBER 1998 @ AMERICAN INSTITUTE OF PHYSICS	
	21.	CMOS-ONLY SENSORS AND MANIPULATORS FOR MICROORGANISMS ; G. MEDORO, N. MANARES, M. TARTAGNI AND R. GUERRIERI	✓

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	22.	CELL-BASED DETECTOR LIGHTS UP FOR DEADLY GERMS; BY MAGGIE FOX; REUTERS; http://www.reuters.com/p/printerFriendlyPopup.jhtml?type=science ...	✓
	23.	U.S. TEAM FINDS HINTS OF HOW, WHY CANCER SPREADS By MAGGIE FOX; http://www.reuters.com/printerFriendlyPopup.jhtml?type=science ...	
	24.	RNAi; SIRNA THERAPEUTICS; http://www.sirna.com/rnai/rnai.html	✓
	25.	ZUCKERMAN, LAURIE; TAKING THE GUESSWORK OUT OF CANCER TREATMENT SICEL TECHNOLOGIES; BUSINESS LEADER; SICEL TECHNOLOGIES.	✓
	26.	SHORT-TERM CANINE IMPLANATATION OF A GLUCOSE MONITORING TELEMETRY DEVICE; ATANASOV, P.; YANG, S.; SALEHI, C.; GHINDILIS, A.L.; WILKINS, E.	

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	27.	MEDICAL MICROMACHINES : NEW ATDC COMPANY DEVELOPING IMPLANTABLE BLOOD PRE AND FLOW SENSOR BASED ON MICRO ELECTRO - MECHANICAL SYSTEMS (MEMS) TECHNOLOGY, ATDC NEWS.	
	28.	MINIATURE IMPLANTABLE SENSOR LIKELY LIFESAVER FOR PATIENTS ; OAK RIDGE , TENN . NOV 22 , 2002 . MEDTRONICS NEWS RELEASES .	
	29.	"RESEARCH PRESENTED AT ADA ANNUAL MEETING DEMONSTRATES ACCURACY AND FEASIBILITY OF ARTIFICIAL PANCREAS COMPONENTS"	
	30.	"A MATHEMATICAL ANALYSIS USING FRACTALS FOR BINDING INTERACTIONS OF NUCLEAR ESTROGEN RECEPTORS OCCURRING ON BIOSENSOR SURFACES" ; ANAND RAMAKRISHNAN AND AJIT SADANA ; CHEMICAL ENGINEERING DEPARTMENT, UNIVERSITY OF MISSISSIPPI , P.O. BOX 1848	
	31.	"PLASTIC-BASED DISPOSABLE SMART BIOCHIPS WITH INTEGRATED BIOSENSORS FOR BLOOD ANALYSIS AND CLINICAL DIAGNOSTICS" ; CHONG H. AHN & JIN-WOO CHOI, MICROSYSTEMS AND BIOMEMS LAB DEPARTMENT OF ELECTRICAL & COMPUTER SCIENCE UNIVERSITY OF CINCINNATI ; http://www.healthtech.com/2001/mfb/abstracts/ahn.htm .	

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	32.	"GENE VARIANT TIED TO INCREASED SUSCEPTIBILITY TO CANCER RESEARCH FIND OTHER FACTORS ARE ALSO PART OF EQUATION." DAVID PERLMAN; WEDNESDAY, AUGUST 6, 2003. URL: http://sfgate.com/cgi-bin/article.cgi?f=/c/a/2003/08/06/MN131526.DTL .	
	33.	"CANARY CHIP WARNS OF DANGER FROM BIOAGENTS"; RHONDA ASCIERTO; WWW.SVBIZINK.COM; Friday, June 20, 2003.	
	34.	"MICROARRAYS & PROTEIN CHIPS GLOSSARY", http://www.genomicglossaries.com/content/printpage.asp?REF=/content/Microarrays & protein	
	35.	"MICROARRAYS & PROTEIN CHIPS CATEGORIES"; http://www.genomicglossaries.com/content/printpage.asp?REF=/content/Microarrays & protein	
	36.	JIM ROGERS; JULIE QUICK; "USDA STRENGTHENS 2003 PERMIT CONDITIONS FOR FIELD TESTING GENETICALLY ENGINEERED PLANTS"; http://www.usda.gov/news/releases/2003/03/aphis030603.htm .	

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First Named Inventor

FERNANDEZ, D.

Art Unit

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	37.	"INTELLISENSE DRIVES MEMS PRODUCT DESIGN, DEVELOPMENT, AND MANUFACTURING"; JOURNAL: SENSOR BUSINESS DIGEST	
	38.	"AN IMPLANTABLE DEVICE TO PREDICT AND PREVENT SEIZURES"; DICHTER, MARC A; NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE.	
	39.	"WIRELESS NETWORKING SOLUTIONS FOR SMART SENSOR BIOMEDICAL APPLICATIONS"; BY SCHWIEBERT, LOREN; WAYNE STATE UNIVERSITY ELECTRICAL & COMPUTER ENGINEERING.	
	40.	A 128X128 CMOS BIO-SENSOR ARRAY FOR EXTRACELLULAR RECORDING OF NEURAL ACTIVITY; EVERSMANN, et al; 2003 IEEE INTERNATIONAL SOLID-STATE CIRCUITS CONFERENCE.	
	41.	CHIP SENSES TRACE DNA; AN MIT ENTERPRISE TECHNOLOGY REVIEW.	

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